

Python 101 x Scipy

(1) Introduction to Python

AIAT Academy

Instructors

- Introduction to Python and Scipy
 - Thodsaporn Chay-intr
- Advanced topics in Deep learning using Python
 - Dr. Kobkrit Viriyayudhakorn



Course Goals

- Develop programming skills with Python fundamentals
- Gather experience with practical Python tasks
- Review basic syntaxes in Python programming

Course Outline

- Introduction to Python
- Python Basics (Part 1)
 - Interactive Interpreter, Comments, Variable and Types, Numbers and Booleans
- Coffee Break
- Python Basics (Part 2)
 - Strings, Control I/O, Functions
- Lunch Break
- Python Basics (Part 3)
 - Control Flow (Condition), Loops, List and Dictionary
- Coffee Break
- Meet SciPy
 - NumPy, SciPy, Matplotlib

History of Python

- Python 1: 1994
- Python 2: 2000
- Python 3: 2008



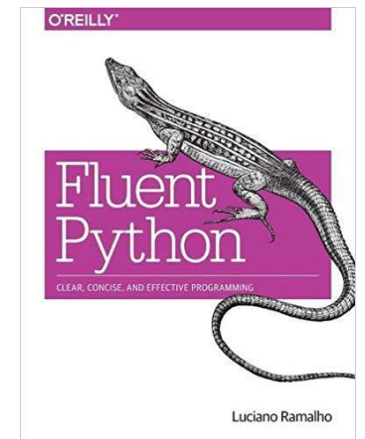
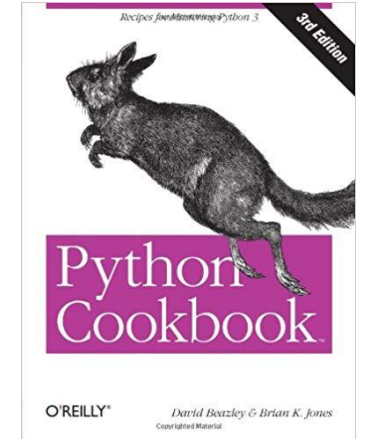
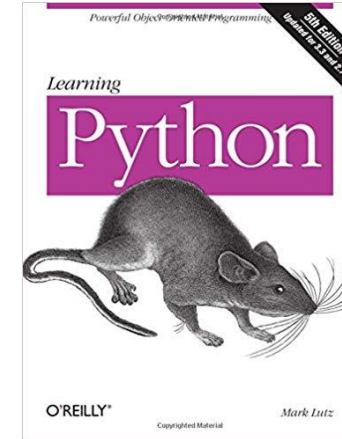
Guido van Rossum

Major Versions of Python

- Python 2 (2.7.x)
 - Python 2 will be retired in 2020
 - Sometimes, it's good for technical programming
- **Python 3 (3.x)**
 - Good for beginner.
 - Good for general use.
- **We are using 3.5.x +**

Introduction

- <https://www.python.org>
 - Documentation, beginner guide, tutorials, etc.
- Quality books for learning Python
 - Learning Python by Mark Lutz
 - Python Cookbook by David Beazley and Brian K. Jones
 - Fluent Python: Clear, Concise, and Effective Programming by Luciano Ramalho



"Hello World" in Java

```
Public class HelloWorld {  
    Public static void main(String[] args) {  
        System.out.println("Hello World!");  
    }  
}
```


"Hello World" in C

```
#include <stdio.h>
```

```
void main(){
```

```
    printf("Hello World!");
```

```
    return 0;
```

```
}
```

Python in World-class software companies

